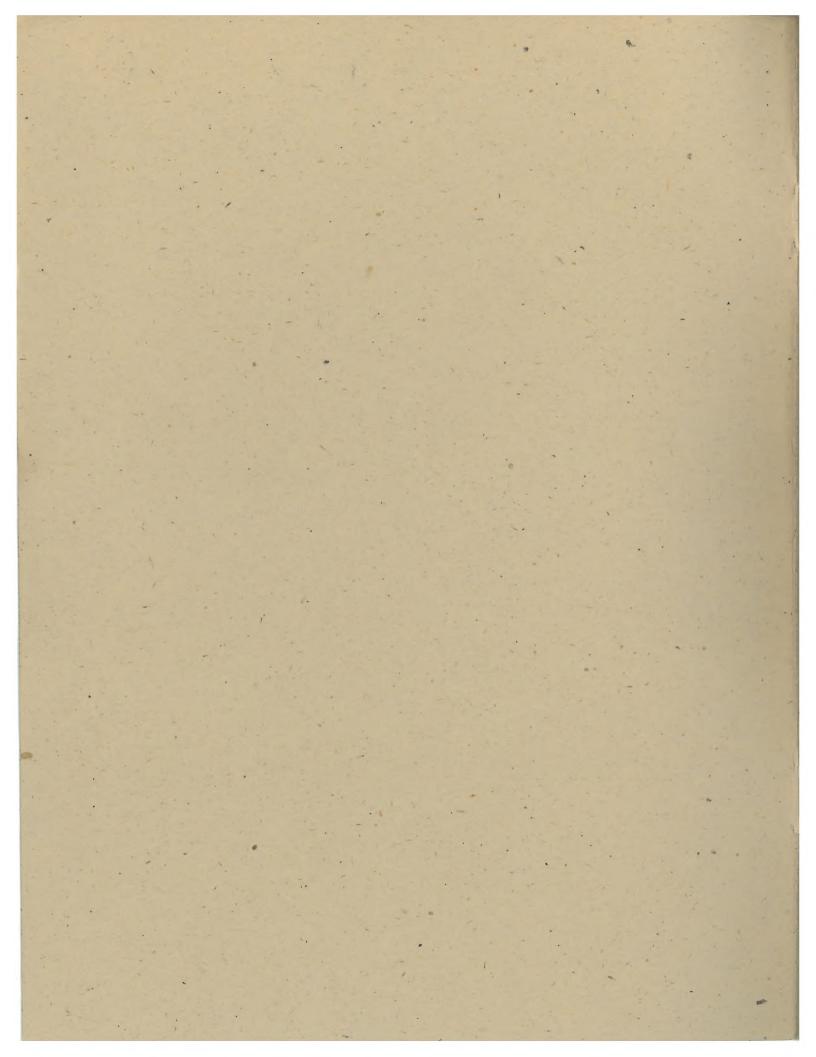
THE H.D. SMITH & Co's & DROP FORGED TOOLS

No. 25







"You cannot dream yourself into a character; you must hammer and forge yourself one."

-Carlyle.

PLANTSVILLE, CONN., U.S.A.

ESTABLISHED 1850 INCORPORATED 1892

MAKERS OF

Drop Forged Fine Tools

Originators — Not Imitators

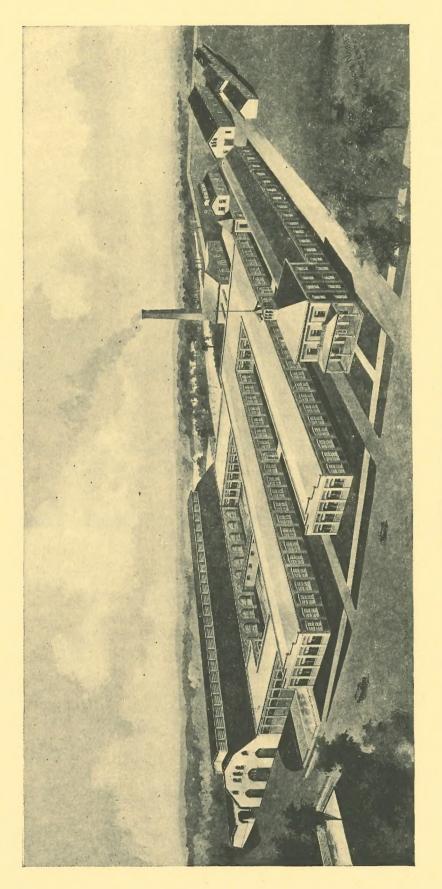
BE SURE TO ORDER BY OUR NAME AND TRADE MARKS

TRADE MARKS:

"PERFECT HANDLE"
"SharpenEzy"
"Gittatit"
"ENCHASED"
"ULTIMATE"



Copyright, 1920, by The H. D. Smith & Co.

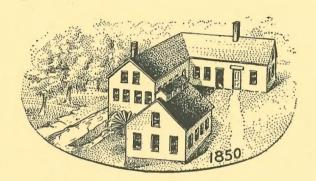


THE H. D. SMITH & CO.,
PLANTSVILLE, CONN., U.S. A.

ANNOUNCEMENT

Nothing equals Drop Forging for working Steel.

In 1850, when we began the manufacture of Vehicle Drop Forgings, the first Drop Forging plant started operating.



Each passing year has added to our experience, teaching us more and more ways to increase the desirability of our goods.

It would be unbecomingly modest for us not to call attention to the important fact that our product is easily recognizable by its distinctiveness and visible value, that we are originators and do not imitate.

The imitator at once confesses his paucity of ideas and the value of what he is imitating, but he never attains the perfection of the original, and he is never as good as the originator.

He is, like the general run of the helpless, to be pitied but not admired.

Our tools have made for themselves an enviable place in the commerce of the world and in the affection of the user; and it is with deep gratitude that we extend our sincere thanks to the many friends who have by their appreciation of our efforts made those efforts pleasant work and encouragement for the future.

THE H. D. SMITH & CO.

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Please read page 36

For many years we have made no unnecessary sizes, styles, or finishes—dollar sinkers.

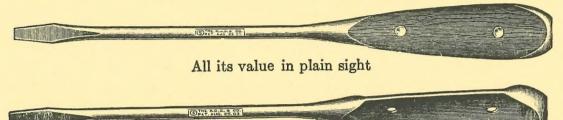
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Electrotypes the size of the illustrations shown herein, also about half the size of the larger ones, will be furnished free to the trade.

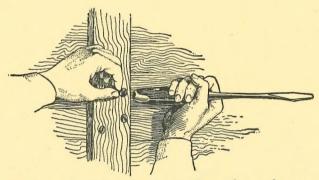
No. 609

"PERFECT HANDLE" SCREW DRIVERS

"The most necessary of all tools"



From hammer head to driver tip a solid, one piece, drop forging



The hammer head can be used as a hammer to force the points of screws into wood, or with a hammer to loosen screws.

Every "PERFECT HANDLE" Screw Driver is made of steel analyzed and tested for the purpose.

The point of each one is tested in our special testing apparatus.

The handles are riveted on, locked in under pressure, and waterproofed.

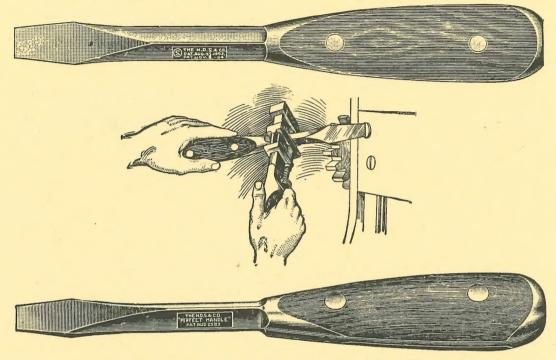
Absolutely Guaranteed.

No. 609 "PERFECT HANDLE" Screw Drivers (Order by blade length)

Blade lgth	1., 2	2½	3	4				8		12	in.
List,	\$3.50	3.70	4.00	4.25	5.00	6.00	7.00	8.00		12.00	doz.
Diam.,	1/4	$6\frac{1}{4}$	$7\frac{\frac{1}{4}}{7}$	$8\frac{1}{4}$ $8\frac{3}{4}$	$9\frac{1}{4}$	16	16	38	$16\frac{\frac{3}{8}}{8}$	$18\frac{3}{8}$	in.
Over all,	$5\frac{3}{4}$	$6\frac{1}{4}$	$7\frac{3}{4}$						168		in.
Wgt. case	. 36	38	54	57	61	87	95	135	80	90	lbs.

Packed $\frac{1}{2}$ dozen in a box 2-8 inch, 12 dozen in a case 10 and 12 inch, 6 dozen in a case

No. 610 "PERFECT HANDLE" MACHINISTS' SCREW DRIVERS



The Steel from end to end is a one-piece Drop Forging
With Square Shank for Wrench
The Great Persuader of Large and Stubborn Screws

Every "PERFECT HANDLE" Screw Driver is made of steel analyzed and tested for the purpose.

The point of each one is tested in a special machine.

The handles are riveted on, locked in under pressure, and waterproofed.

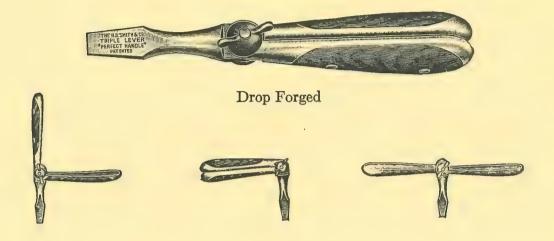
Absolutely Guaranteed

No. 610 "PERFECT HANDLE" Machinists' Screw Drivers

Made in two sizes, Nos	$9\frac{1}{2}$.	$10\frac{1}{2}$
List price	\$10.00	11.00 per dozen
Length over all	$9\frac{1}{2}$	$10\frac{1}{2}$ inches
Length of blade	$4\frac{1}{2}$	5 inches
Size of square	$\frac{7}{16}$	$\frac{9}{16}$ inch
Width of point	$\frac{1}{2}$	inch
Thickness of point	$\frac{5}{64}$	$\frac{5}{64}$ inch
Weight case	50	80 pounds

Packed $\frac{1}{2}$ dozen in a box 6 dozen in a case

No. 611 "PERFECT HANDLE" TRIPLE LEVER SCREW DRIVER



This Screw Driver is most convenient and practical for large screws. By the simple adjusting of the Thumb Screw and Nut it is quickly susceptible to any of the four leverages shown in the illustrations.

No Wrench is necessary with the Triple Lever Screw Driver, for it carries its additional leverage with it.

Every "PERFECT HANDLE" Screw Driver is made of steel analyzed and tested for the purpose.

The point of each one is tested in a special machine.

The handles are riveted on, locked in under pressure, and waterproofed.

Absolutely Guaranteed

No. 611 "PERFECT HANDLE" Triple Lever Screw Driver

No. 3, Over all $9\frac{1}{4}$ inches; list price \$18.00 per dozen Bit. $4\frac{1}{8}$ inches

Point $\frac{1}{2}$ inch wide, $\frac{5}{64}$ inch thick

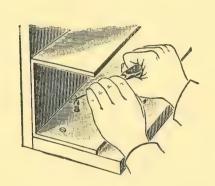
Weight case 90 pounds

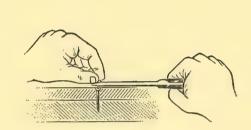
Packed ½ dozen in a box 6 dozen in a case

No. 612 "PERFECT HANDLE" THREE BIT SCREW DRIVER



Drop Forged







Can be used inside and outside, over and under, in between and offset.

When the side bits are used considerable additional leverage can be obtained and screws operated in out-of-the-way places that cannot be reached in the ordinary way.

Every "PERFECT HANDLE" Screw Driver is made of steel analyzed and tested for the purpose.

The point of each one is tested in a special machine.

The handles are riveted on, locked in under pressure, and waterproofed.

Absolutely Guaranteed

No. 612 "PERFECT HANDLE" Three Bit Screw Driver

Blade 5 inches

Point..... $\frac{3}{8}$ inch wide, $\frac{1}{16}$ inch thick

Packed ½ dozen in a box 12 dozen in a case

No. 613 "RUBBER COVERED" SCREW DRIVERS



For work on Spark Plugs or Electric Wires, in daylight or darkness, without fear of shocks, and knowing that you will not short-circuit, or do other damage with the tool.

The rubber extending continuously over the handle and shank meets the blade flush, so that there is no shoulder or other obstruction from end to end that can possibly prevent free manipulation at all times, and particularly in out-of-the-way places.

The Steel Blade is unqualifiedly guaranteed

No. 613 "Rubber Covered" Screw Drivers

Blade length	3	6	inches
List price	\$6.00	9.00	per dozen
Over all	$6\frac{3}{4}$	$11\frac{1}{4}$	inches
Weight case	35	80	pounds

Packed ½ dozen in a box
12 dozen in a case

No. 615 "PERFECT HANDLE" MONKEY WRENCHES





The swell of the handle being at the butt end gives the greatest leverage.

The bracing of the sliding jaw in the back with a yoke adds to the stiffness of that jaw and keeps it more steadily in alignment.

The handles are riveted on, locked in under pressure, and waterproofed.

Absolutely Guaranteed

No. 615 "PERFECT HANDLE" Monkey Wrenches

E 10								
Length	. 6	8	10	12	15	18	21	inches
List price	.\$15.00	18.00	22.00	28.00	38.00	48.00	58.00	per doz.
Jaw opening	. 1	$1\frac{1}{4}$	$1\frac{3}{4}$	$2\frac{1}{8}$	$2\frac{3}{4}$	$3\frac{1}{8}$	4	inches
In slide cover boxes	\cdot $\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	1/3	$\frac{1}{3}$	$\frac{1}{12}$	dozen
Full case	. 6	6	6	6	3	2	1	dozen
Weight per case	. 60	115	200	285	205	190	150	pounds

<

TAKE A FEW MINUTES TO READ AND ABSORB THE COMPARISONS BELOW This is a composite drawing, in outline, of the Compare This is an outline drawing of the No. 615 "PER-Monkey Wrench.

its points of excellence with the Wrench to the right. FECT HANDLE"

bar steel made to order to special analysis for this Wrench. DROP FORGING is to steel as kneading dough is to bread. It conserves The entire bar, from top of head to end of handle is DROP FORGED from heavy all that is best in the crystals (the muscles) of the metal This YOKE is not on any other Screw Wrench. It joins the top and bottom strap of the sliding jaw rigidly, This rigidity prevents the jaw from buckling under strain, When the jaw buckles, the screw is thrown out of alignment: this is the cause of a large majority of Wrenches being rendered useless.

Longer thread-bearing in sliding jaw.

Re-inforced on back of bar to compensate or screw head cut-out on front of bar. VERY IMPORTANT

ing, comfortable for the thumb or finger -Here the bar is curved smooth and roundto slide over when turning the screw.

leverage depending on the size of the Wrench. All other points being equal The swell of the handle is largest at the and giving from one to three inches more I other points being equal itself make the "PERFECT "The locked-in upper énd of the "PERFECI HANDLE." this would of itself make the "PERFEC HANDLE" WRENCH the most desirable.

0

absurd.

"PERFECT HANDLE," Locked in under ocked-in lower end of the water-proofed pressure, no splits, no cracks, the wooden handle is there to stay and will stay on.

0

Compare it point for point with the Wrench to the left. Wrenches. ordinary Scale Handle Monkey

This head is smashed to shape in aheading machine. Heading is a quick process, one or two severe blows and there you are with the crystals (muscles) of the It has not the kneading efficacy of drop forging. metal crushed every which way.

Very short thread-bearing in sliding jaw. Nothing joins the upper and lower straps. What 18 to prevent it from buckling under strain? of the sliding jaw on the back.

Weakened by the cut out for the screw head in the front of bar; no re-inforcement on back of bar.

The upper part of the cas: iron malleable handle frame is sharp and uncomfortable to thumb or finger when turning screw.

The swell of the handle is here, with from Here's where they get in a lot of clap-trap to hold the upper end of the wooden handle. one to three inches of leverage wasted-Dissect one and look it over.

the "Perfect Handle" Wrench, though they have that appearance. From (A) to (B) they have a cast iron malleable frame pushed on the tail of the "Monkey" to obtain a spread of surface on which to fasten the wooden handles and to cheaply apply the bolster on which to rest the These Wrenches are not solid thumb screw.

0

Metal handle Wrenches and other tools are objectionable because of their susceptibility to cold and heat,

We know of no tools made as good as the "PERFECT HANDLE," none as strong or as handsome. also because of their crudity and uncomfortableness—see the scientific explanation of this on page 36.

No. 643 "PERFECT HANDLE" PIPE WRENCHES



The Strongest and Handsomest of all Pipe Wrenches
The Bar and Hook Jaw one-piece Solid Drop Forgings

The swell of the handle being at the butt end gives the greatest leverage.

Extra strong swinging frame; protected spring.

These Pipe Wrenches will stand all the rough usage of those with steel handles, and are more comfortable.

The "PERFECT HANDLE" is infinitely stronger than the common cone or barrel shaped wooden handle because it rests flat upon the steel, is riveted on, locked in under pressure, and waterproofed.

Absolutely Guaranteed

No. 643 "PERFECT HANDLE" Pipe Wrenches

Length open	8	10	14	18	24	inches
List price	\$2.00	2.25	3.00	4.00	6.00	each
Capacity	$\frac{1}{8}$ to $\frac{3}{4}$	$\frac{1}{8}$ to 1	$\frac{1}{4}$ to $1\frac{1}{2}$	$\frac{1}{4}$ to 2	$\frac{1}{4}$ to $2\frac{1}{2}$	inches
In slide cover boxes	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{6}$	dozen
Full case	6	6	6	3	1	dozen
Weight per case	67	140	275	215	140	pounds
	Tion D	miana of	Donto			
	List P	rices of	Parts			
	8	10	14	18	24	inches
Movable hook jaw	\$0.75	.80	1.00	1.33	2.10	each
Knurled nut	.11	.14	.17	.22	.35	each
Frame or rocker	.35	.40	.50	.55	.80	each
Spring	.03	.03	.03	.04	.04	each
Frame pin	.03	.04	.04	.04	.04	each
Spring pin	.03	.04	.04	.04	.04	each

No. 640 "PERFECT HANDLE" FIXED OPENING WRENCHES



The Steel of these Wrenches is a one-piece solid Drop Forging The swell of the handle being at the butt end gives the greatest leverage.

These Wrenches will stand the rough usage of the common all-steel kind that have no wooden handle; they are very much more comfortable and safe.

The handles are riveted on, locked in under pressure, and waterproofed.

Absolutely Guaranteed

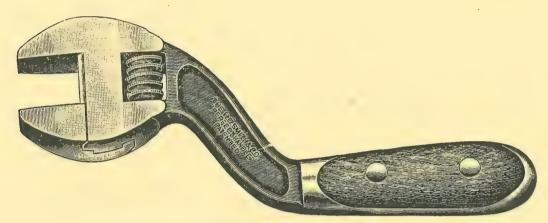
No. 640 "PERFECT HANDLE" Fixed Opening Wrenches

U. S. S. nut	$\frac{1}{2}$	$\frac{9}{16}$	<u>5</u>	34	78	1	$1\frac{1}{8}$	11/4	in., bolt
List price	\$5.00	5.50	6.50	8.50	11.00	14.00	14.00	14.00	per doz.
Opening, milled	7	$\frac{31}{32}$	$1\frac{1}{16}$	$1\frac{1}{4}$	$1\frac{7}{16}$	$1\frac{5}{8}$	$1\frac{13}{16}$	2	inches
Length over all	$7\frac{1}{2}$	$8\frac{3}{8}$	$9\frac{1}{4}$	$11\frac{1}{8}$	13	$14\frac{7}{8}$	$14\frac{7}{8}$	$14\frac{7}{8}$	inches
Thickness head	$\frac{13}{32}$	$\frac{27}{64}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{21}{32}$	34	34	34	inch
Offset or Angle	15	15	15	15	15	15	15	15	degrees

Packed ½ dozen in a box

6 dozen in a case

No. 641 "PERFECT HANDLE" ADJUSTABLE "S" WRENCHES



The Bar and the Sliding Jaw are Steel Drop Forgings

In addition to the perfect "PERFECT HANDLE" these Wrenches are made of Drop Forged Steel and should not be confused with those made more easily and cheaply of castings.

The swell of the handle being at the end admits of the most powerful leverage for the length of each Wrench.

These Wrenches are thin and necessarily light, and cannot be expected to do the mule work of Monkey Wrenches; they are guaranteed accordingly.

Fit all Styles of Nuts

No. 641 "PERFECT HANDLE" Adjustable "S" Wrenches Length..... 6 8 10 inches List price..... \$15.00 18.00 22.00 per dozen inch Opening..... 1 14 72 Weight case.... 140 pounds

Packed ½ dozen in a box

6 dozen in a case

No. 642 "PERFECT HANDLE" ADJUSTABLE STRAIGHT HANDLE WRENCHES



The Bar and the Sliding Jaw are Steel Drop Forgings

In addition to the perfect "PERFECT HANDLE" these Wrenches are made of Drop Forged Steel and should not be confused with those made more easily and cheaply of castings.

The swell of the handle being at the end admits of the most powerful leverage for the length of each Wrench.

These Wrenches are thin and necessarily light, and cannot be expected to do the mule work of Monkey Wrenches; they are guaranteed accordingly.

Fit all Styles of Nuts

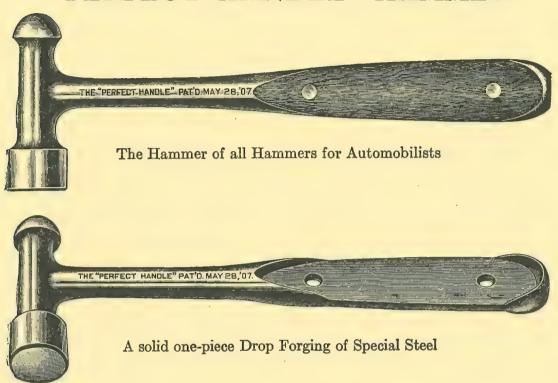
No. 642 "PERFECT HANDLE" Adjustable Straight Handle Wrenches

Length	6	8	10	inches
List price	\$15.00	18.00	22.00	per dozen
Opening	$\frac{3}{4}$. 1	$1\frac{1}{4}$	inch
Weight case	40	65	125	pounds

Packed ½ dozen in a box

6 dozen in a case

No. 616 "PERFECT HANDLE" HAMMER



This is an exceptionally strong Hammer of excellent "hang."

The wood of the "PERFECT HANDLE" is riveted on, locked in under pressure, and waterproofed; the handle will not break or fly off, the affliction of the common wooden handle hammers.

Absolutely Guaranteed

No. 616 "PERFECT HANDLE" Hammer

Packed ½ dozen in a box

6 dozen in a case

No. 620 "PERFECT HANDLE" TIRE TOOL OR PRY BAR



The Bar is a one-piece steel Drop Forging

This is the handiest kind of a tool for taking off and putting on automobile tires quickly; the curved point tapering to $\frac{1}{16}$ slips readily under the tire.

The Bar is remarkably strong and with the locked in, riveted on, and waterproofed "PERFECT HANDLE," makes a most comfortable and powerful lever.

Absolutely Guaranteed

No. 620 "PERFECT HANDLE" Tire Tool or Pry Bar

No. 620, Length. $13\frac{1}{2}$ inches; list price \$12.00 per dozen Width. 1 inch, tapering to $\frac{7}{8}$ inch
Thickness. $\frac{1}{2}$ inch, tapering to $\frac{1}{16}$ inch
Weight case. 100 pounds

Packed ½ dozen in a box

6 dozen in a case

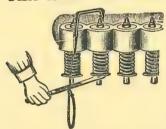
No. 650 "PERFECT HANDLE" VALVE SPRING LIFTER

HECO HADE IN PLANTSVILLE, CO



The holes in the lever are round, permitting the free passage of the chain. An "S" hook is attached to the ring at the lower end of the chain. The ring and "S" hook can quickly be removed so that the chain can be used through either of the holes in the lever. To operate, get the depth necessary, pass the "S" hook through the link of the chain on the underside of the lever for that depth; the fulcrum is then set for as long as so wanted, and the valve springs can be compressed at pleasure. The prongs of the lever admit any valve stem.

This is how it works



Drop Forged Hook and Bar

This handsome and dependable tool is a practical device for compressing the valve springs of automobile and other gas engines to permit the easy removing and replacing of the valves.

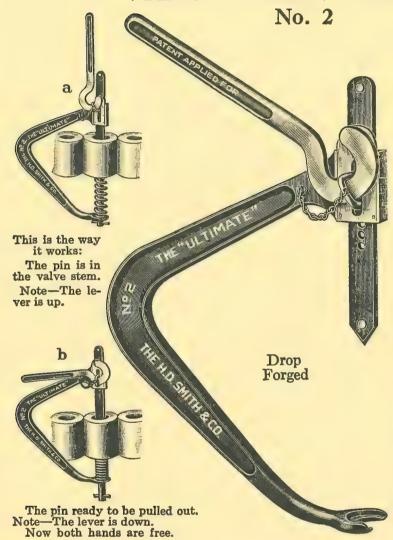
Absolutely Guaranteed

No. 650 "PERFECT HANDLE" Valve Spring Lifter

Weight case......150 pounds

Packed ¹/₆ dozen in a box 6 dozen in a case

No. 652 THE "ULTIMATE" VALVE SPRING LIFTER



Direct Acting, Simple, Powerful, Positive

With the "ULTIMATE" Valve Spring Lifter two of our mechanics did the work of removing the valves from a multi-cylindered car in five minutes, work that previously had taken the same two men three and a half hours to do with the cheap can opener affair that was sent out with the car.

The Sliding Bar of the "ULTIMATE" can go down into recesses to reach the top of valve stems.

Set the Prong of the Frame under the valve spring, let the point of the Sliding Bar rest on the top of the valve, set the longer end of the right angle adjusting hook through the hole in the Frame and hole in the Sliding Bar that it will meet, letting the shorter stem of the hook be in the curved opening of the lever—then proceed to raise or lower the spring as you wish.

Absolutely Guaranteed

No. 652 "ULTIMATE" Valve Spring Lifter No. 2

Packed ¹/₄ dozen in a box, 3 dozen in a case

No. 636 "PERFECT HANDLE" TACK PULLER



The Drop Forged Tack Puller with the Hammer Head

This is the very best of Tack Pullers. In addition to it being a one-piece steel Drop Forging, the wood of the "PERFECT HANDLE" is riveted on, locked in under pressure, and waterproofed.

Attention is called to the beveled and countersunk claw.

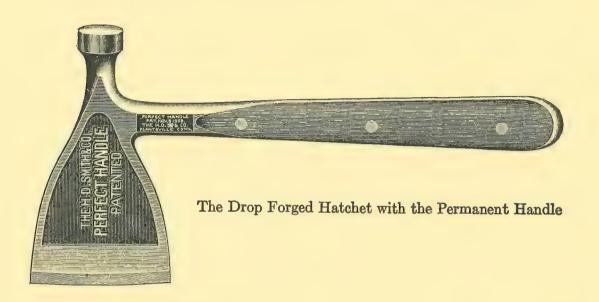
Absolutely Guaranteed

No. 636 "PERFECT HANDLE" Tack Puller

Packed ½ dozen in a box

12 dozen in a case

No. 638 "PERFECT HANDLE" HATCHET



We all know how aggravating, not to say dangerous, it is for the handle of a Hatchet to break at the wrong time, and there is no right breaking time.

The steel portion of the handle of the "PERFECT HANDLE" Hatchet will not break, and the wooden portions are safe because they are riveted on, locked in under pressure, and waterproofed.

Absolutely Guaranteed

No. 638 "PERFECT HANDLE" Hatchet

Packed ½ dozen in a box

3 dozen in a case



No. 619 "PERFECT HANDLE" DRAWING KNIVES



THE H.D.S.&CO."PERFECT HANDLE"

Special attention is called to the importance of the wood of the "PERFECT HANDLE" being locked in under pressure, riveted on, and waterproofed.

These handles will not work loose and pull off like those of common Drawing Knives shown below.

Absolutely Guaranteed

No. 619 "PERFECT HANDLE" Drawing Knives

Blade length	8	10	12	inches
List price	MA - AA	27.00	29.00	per dozen
Weight case		110	120	pounds

Packed ½ dozen in a box 4 dozen in a case

This is the ordinary kind:



No. 618 "DOUBLE" SCREW DRIVER BITS



Drop Forged

Twice as much for your money and twice as convenient as the single end style. Nicely finished.

Accurately tempered.

No. 618 "DOUBLE" Screw Driver Bits

No. 1, Small end, $\frac{1}{4}$ in. wide for Nos. 6 to 8 Screws list price Large end, $\frac{5}{16}$ in. wide for Nos. 8 to 12 Screws \$3.50 per doz.

No. 2, Small end, $\frac{5}{16}$ in. wide for Nos. 8 to 12 Screws list price Large end, $\frac{3}{8}$ in. wide for Nos. 12 to 16 Screws 3.50 per doz. Length, $4\frac{5}{8}$ inches

Packed in boxes of 1 dozen each or 1 dozen assorted

No. 621 OCTAGON COLD CHISELS



Drop Forged
Well made
Carefully tempered

No tool can be more easily and unconsciously abused than a Cold Chisel. The slightest variation in the angle at which a chisel is held and struck after an aperture has been formed, puts an unnecessary and perhaps overpowering strain on the extreme point, the most delicate part of the tool.

No. 621 Octagon Cold Chisels

Blade width.... $\frac{3}{8}$ $\frac{1}{2}$ $\frac{5}{8}$ $\frac{3}{4}$ $\frac{7}{8}$ 1 inch List price..... \$1.75 2.25 3.25 4.75 6.75 8.75 per dozen Length..... 6 $6\frac{3}{8}$ $6\frac{3}{4}$ $7\frac{1}{8}$ $7\frac{1}{4}$ $7\frac{1}{2}$ inches

 $\frac{3}{8}$ $\frac{1}{2}$, $\frac{5}{8}$ inch, 1 dozen each in a box $\frac{3}{4}$, $\frac{7}{8}$, 1 inch, $\frac{1}{2}$ dozen each in a box

No. 631 "SharpenEzy" COLD CHISELS



Drop Forged

Attractive shape and finish

Carefully tempered

The first and only improvement in Cold Chisels and similar tools

The blade can be ground and sharpened until entirely used.

The fluted handle prevents the tool from slipping around in the hand.

No tool can be more easily and unconsciously abused than a Cold Chisel. The slightest variation in the angle at which a chisel is held and struck after an aperture has been formed, puts an unnecessary and perhaps overpowering strain on the extreme point, the most delicate part of the tool.

No. 631 "SharpenEzy" Cold Chisels

Blade width		$\frac{1}{2}$	<u>5</u>	34	78	1	inch
List price	\$1.75	$2.\overline{2}5$	3.25	4.75	6.75	8.75	per dozen
Length			$6\frac{3}{4}$	71/8	$7\frac{1}{4}$	$7\frac{1}{2}$	inches
	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$ inc	ch, packe	d 1 dozen	each in	a box	_	
	$\frac{3}{4}, \frac{7}{8}, 1$ inc	ch, packe	d 🕹 dozen	each in	a box		

No. 634

"SharpenEzy" CAPE CHISELS



Drop Forged

Attractive shape and finish

Carefully tempered

These have all of the good qualities of the "SharpenEzy" Cold Chisels mentioned above.

No. 634 "SharpenEzy" Cape Chisels

Diameter at handle	$\frac{1}{2}$	$\frac{5}{8}$ inch
List price		3.25 per dozen
Width at cut. Length.	$\frac{1}{4}$	$\frac{76}{6\frac{1}{6}}$ inches
Lengui		UF INCHES

Packed 1 dozen in a box

No. 632 "SharpenEzy" NAIL SETS



Drop Forged

Attractive shape and finish Carefully tempered

Fluted handles; will not roll; they are cup pointed, first-rate practical Nail Sets, distinctive and different in appearance from the ordinary knurled kind.

No.	632	"SharpenEzy"	Nail	Sets
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Numbers	1	2	3	
List price		1.75	1.75	per dozen
Diameter point		$\frac{4}{32}$	$\frac{5}{32}$	inch
Length	4.0	$4\frac{3}{8}$	$4\frac{3}{8}$	inches

Packed 1 dozen in a box

No. 633 "SharpenEzy" PUNCHES



Drop Forged

Attractive shape and finish Carefully tempered

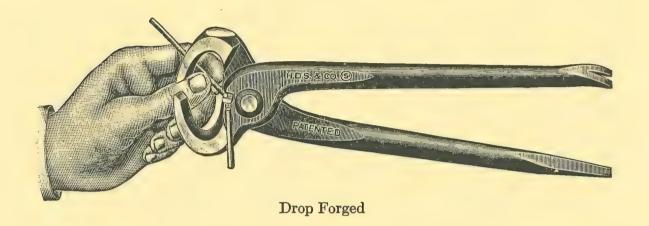
These Punches are a decided improvement over the ordinary kind particularly because the fluted handle admits of firm grip and accurate directing.

No. 633 "SharpenEzy" Punches

Diameter at handle	$\frac{1}{2}$	<u>5</u>	inch
List price	\$2.25	3.25 p	er dozen
Diameter point	$\frac{3}{16}$	4	inch
Length	$6\frac{1}{4}$	$6\frac{5}{8}$	inches

Packed 1 dozen in a box

No. 601 CARPENTERS' PINCERS



With Hammer Head, Wire Cutter, Tack Claw, and Screw Driver

These Pincers are made of good steel, well finished, and excellently tempered.

They have a distinctiveness of their own that makes them very desirable both to the seller and the user.

No. 601 Carpenters' Pincers

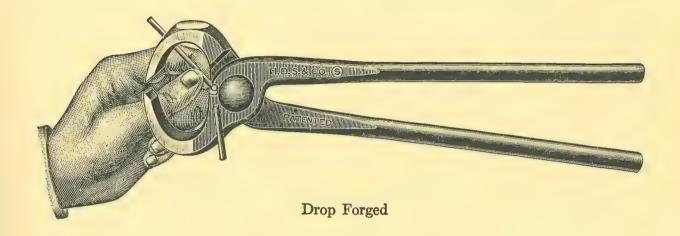
Length	6	8	10	inches
List price	\$6.00	7.50	9.00	per dozen
Weight case	84	135	176	pounds

Each Pincer packed in an envelope

dozen in a slide cover wooden box

12 dozen in a case

No. 603 BLACKSMITHS' SHOEING PINCERS



With Hammer Head and Wire Cutter

These Pincers are made of good steel, well finished, and excellently tempered.

The Hammer Head and Wire Cutter, which we first adapted to these and the Carpenters' Pincers, were sensible minor improvements that have been appreciated.

Handy for general use; you can pinch, hammer, and you can cut wire with them.

No. 603 Blacksmiths' Shoeing Pincers

Length	10	12	14	inches
List price	\$9.00	9.50	10.00	per dozen
Weight case	147	160	180	pounds

Packed ¹/₃ dozen in a slide cover wooden box

6 dozen in a case



No. 605 FARRIERS' SHOEING PINCERS



We believe that these Pincers are the best made and so recommend them.

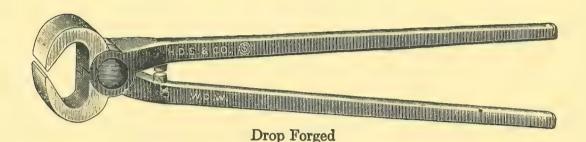
They are Drop Forged from high grade steel in the most careful manner, are well finished and accurately tempered in the good, old-fashioned way.

We call especial attention to the extra wide, $1\frac{1}{8}$ inch jaws.

Guaranteed

Packed 1 pair in a box
3 dozen in a case

No. 607 FARRIERS' CUTTING NIPPERS



Made by experienced mechanics from high grade steel. Extra heavy handles to give rigidity when cutting. Extra heavy and extra wide jaws. The jaws have a gradual taper to the cutting edge and have more than sufficient stock in them to prevent their being tender. Bumpers on the inside of the handles prevent the cutting edges from being dulled by the impact after nails have been cut. Accurately milled joint and raised heads on rivets to insure smooth opening and closing, and to prevent wabbling. Correctly tempered. Well finished.

Guaranteed

Packed 1 pair in a box
3 dozen in a case

"GITTATIT" OFFSET SLIP JOINT PLIERS



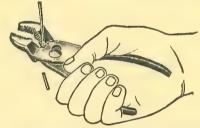
The slickest, quickest, and grippiest of all Slip Joint Pliers



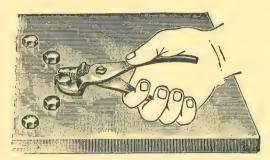
Will do all the work of the ordinary Plier and go into many out-of-the-way places where the others will not.



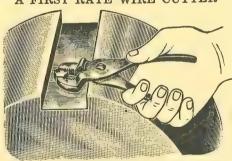
COTTER PIN EXTRACTOR Powerful, practical, and always there



A FIRST RATE WIRE CUTTER



Plenty of room for the hand underneath and still allow a flat, right angle, forceful grip.



You can go around the corner like this and other ways—and there you are—all ways.

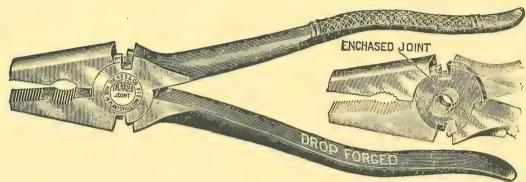
Anywhere, everywhere.

Well finished with polished jaws
Around the corner, here and there.

Guaranteed.

Packed $\frac{1}{2}$ dozen in a box, 12 dozen in a case

No. 648 "ENCHASED" JOINT SLOT-CUTTING PLIERS



Drop Forged

The Enchased Joint is the only practical and worth-while improvement made in Pliers in years.

The Enchased Joint has a bearing around its entire circumference except where there

is an opening for a cutter.

The Enchased Joint Pliers are the only ones that can be operated as perfectly without the center rivet as with. The reason for putting in the Rivet is to give additional strength and to make for additional rigidity after continued wear and use.

Of other Pliers there are now made what are styled Box Joint, and the common, crude, Lap Joint. The Box Joint is better than the Lap Joint in that it holds the two parts together better than the lonely rivet of the latter can; but there the Box Joint

ends. There is no additional leverage, there is no lateral housing.

At present the only Slot-Cutting (called by others Button's pattern) Pliers on the market are the Lap Joint Style. The Lap Joint principle is the cheapest and crudest method for joining two parts of such tools. The Rivet wears or breaks and the Pliers wabble and become loose and useless.

Well finished with polished jaws

Guaranteed

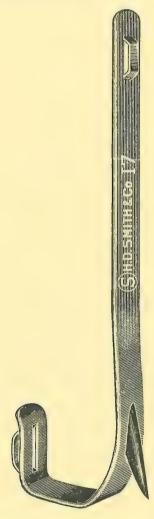
No. 648 "ENCHASED" Joint Slot-Cutting Pliers

Length	6	8	10	inches
List price		9.50	12.00	per dozen
Weight case	78	145	235	pounds

Packed ½ dozen in a box

12 dozen in a case

No. 617 LINEMAN'S CLIMBERS



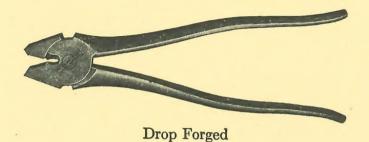
The material used is such as experience has proven to be best for the purpose. The Spur is of the finest, of proper height and length, properly angled and "Whalebone Tempered"—the toughest of tempers. They are made Broad and Comfortable where the foot rests.

No. 617 Lineman's Climbers

Sizes	15	$15\frac{1}{2}$	16	$16\frac{1}{2}$	17	$17\frac{1}{2}$	18	inches
List price					2.50	2.50	2.50	per pair
Extra spurs.	.50	.50	.50	.50	.50	.50	.50	per pair

Packed in bulk

No. 647 ARMY EMERGENCY BARBED WIRE CUTTER



Length 9 inches

This is a simple and powerful cutter designed to slip over wire readily and quickly without any obstruction, and gotten up for use in the Great War where it did its share of good work.

We are ready to make these cutters in quantities for either war or peace use.

Prices upon application

No. 651 DROP HAMMER BOARD WEDGES



Drop Forged

These are practical steel wedges for drop hammer boards that we can supply to builders or users of drop hammers, at a saving of time, trouble, and money.

No. 1 2	Length 10 11	$\begin{array}{c} \text{Width} \\ 2\frac{3}{8} \\ 3\frac{1}{2} \end{array}$	Thickness A $\frac{\frac{3}{4}}{\frac{3}{4}}$	Thickness B $\frac{3}{8}$ inch $\frac{3}{8}$ inch
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Prices upon application

The wood of the "PERFECT HANDLE" is waterproofed and solid, not hollowed out. A powerful press, capable of exerting many tons' pressure, closes in the ends or lips of the Steel over the wooden handles; the handles are then riveted on; this locking and riveting with the wood resting flat against the Steel and being thoroughly protected at each end makes the "PERFECT HANDLE" stronger than any all Steel handle, and it has the additional merit of being comfortable in all sorts of weather and under all conditions—in the hottest of heat and the coldest of cold. See the scientific reason for this in the language of Prof. Lawrence Hodges:—

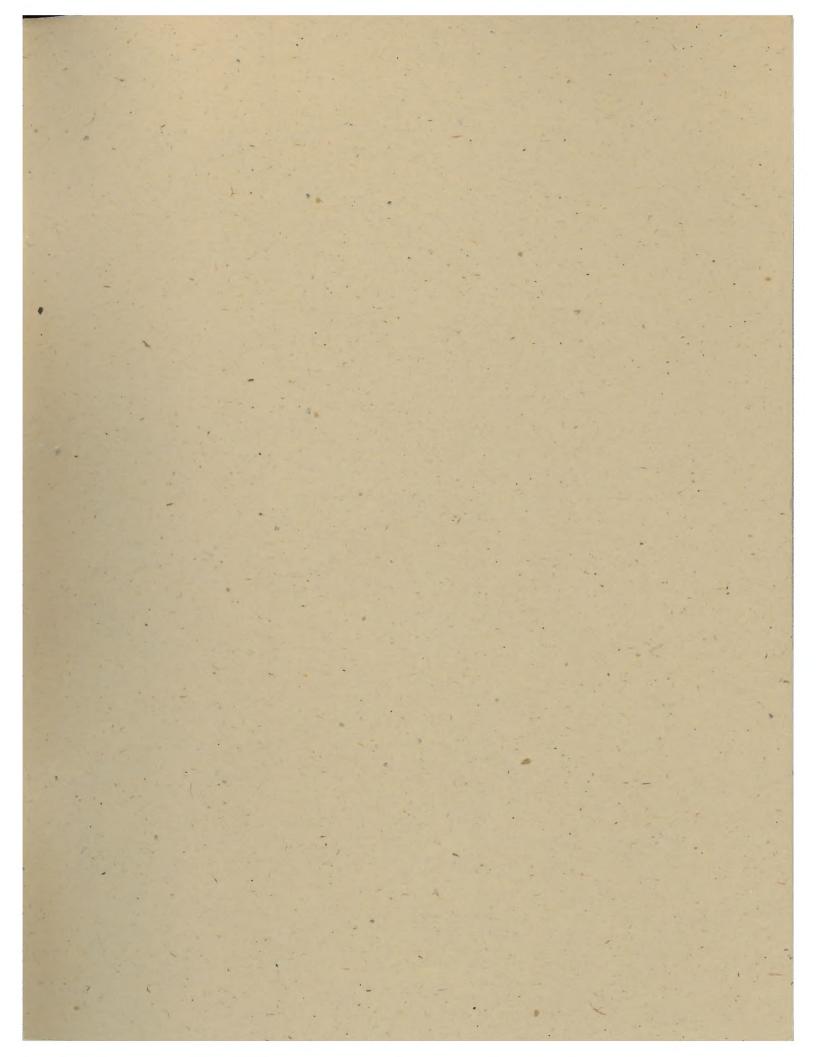
"Why is it that when you put your hand on a piece of steel it feels much colder than a piece of wood immediately next to it? A thermometer will show that the steel and the wood have the same temperature, and it would seem that they should feel the same.

"The explanation lies in what are called the relative heat conductivities of the two substances. Steel is a better conductor of heat than wood, and will conduct the heat away from the hand faster than wood. This can be shown by placing a poker of steel and one of wood into a fire; the handle of the steel poker gets hot more quickly.

"The first mentioned phenomenon takes place only when the temperature of the object is less than that of the human body. When the objects are hotter than the body, just the reverse takes place; in, for instance, a Turkish Bath, where the room and its contents are much warmer than the body, the steel feels very hot and the wood only slightly warm. The explanation is that the hand tends to cool them both—that is, to bring them both to its own temperature—and the steel can and does conduct heat faster from the heated room than can the wood, and consequently is not cooled as is the wood."

A very important feature is that the swell of the "PERFECT HANDLE" being at the end unconsciously gives the operator the benefit of additional leverage and there is no danger of the hand slipping off.





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